

## EXECUTIVE SUMMARY

Robert Steele  
M/023/071

Date Summary Prepared: February 28, 2005

<b>Mine Name:</b> HI-Cal #1	<b>I.D. Number:</b> M/023/071
<b>Operator:</b> Robert Steele	<b>Date Original Notice Received:</b> 03/27/2003
<b>Address:</b> 1055 North 400 East Nephi, Utah 84648	<b>County:</b> Juab
	<b>New/Existing:</b> Status changing from SMO to LMO
	<b>Mineral Ownership:</b> BLM
<b>Telephone:</b> 435-623-1877	<b>Surface Ownership:</b> BLM
<b>Contact Person:</b> Robert Steele	<b>Lease No.(s):</b>
<b>Telephone:</b> 435-623-1877	<b>Permit Term:</b> Life of Mine

**Life of Mine:** 30 years

**Legal Description:** NE ¼ of Section 24, T13S, R2W

**Mineral(s) to be Mined:** Travertine

**Acres to be Disturbed:** 8 acres

**Present Land Use:** wildlife and grazing

**Postmining Land Use:** wildlife and grazing

**Variances from Reclamation Standards (Rule R647) Granted:** None

### Soils and Geology

**Soil Description:** Soil depths range from 0 to 24 inches. The plan includes a laboratory analysis of one sample, and it had a loam texture with low salt, low nitrogen, low phosphorous, and adequate potassium.

**pH:** 7.8.

**Special Handling Problems:** In the mining process, some of the soil was covered with a volcanic clay overburden, and this will need to be removed for the underlying soil to be used.

**Geology Description:** Hot spring deposited or calcium carbonate travertine interbeaded with volcanic ash 20-30 million years old.

### Hydrology

**Ground Water Description:** There are no known wells or springs within several miles of the site and the mine is mining no deeper than 30-40 feet from the surface; therefore, no ground water impacts are expected.

**Surface Water Description:** Only small ephemeral drainage which should not present a problem in terms of water handling

**Water Monitoring Plan:** There is minimal surface runoff at or near the site; therefore, there is not a need for water monitoring, due to lack of significant surface runoff.

### **Ecology**

**Vegetation Type(s); Dominant Species:** The vegetation community in the surrounding area is sagebrush/grass. Some of the dominant species include Wyoming big sage, Sandberg bluegrass, and bluebunch wheatgrass.

**Percent Surrounding Vegetative Cover:** 50

**Wildlife Concerns:** None.

**Surface Facilities:** Temporary facilities (equipment) found on site during mining activity are loaders, trackhoes, bulldozer, portable crushers, belts. All to be removed at the end of mining activity.

### **Mining and Reclamation Plan Summary:**

**During Operations:** The operation will consist of a drill, blast, and crushing operation. First, the topsoil will be removed and stockpiled, then the travertine will be drilled and blasted. Once blasted, it will be pushed into a stockpile for crushing. After crushing, it will be stockpiled onsite for trucks to load and remove over a period of time. The site will consist of an ore stockpile, pad area, pit, highwall, and topsoil piles. The disturbance is planned to be approximately eight (8) acres and be contemporaneously reclaimed as the pit advances to the south. All equipment on site will be portable and only during mining campaigns will crushers, belts, etc. be found on site. The pit highwall will not be anymore than 35 feet high. Approximately 40,000 tons of ore will be mined and hauled per year.

**After Operations:** Any remaining highwalls will be sloped to a 1:1, covered with excess clay and topsoiled using a trackhoe. The pit will be ripped on the contour with a bulldozer and covered with topsoil to a depth of 12 inches and planted in the fall of the year with a recommended seed mix.

### **Surety**

**Amount:** \$28,100

**Form:** \$20,000 CD – remainder to be submitted prior to final approval

**Renewable Term:** 5 years (2010 dollars)